TDC300 manual

1. Get to know your camera

1.1 Features

3.1 Mega pixels resolution sensor
Video clips
Web camera
Built-in Microphone Voice recorder
Built-in flash and red-eye reduction
Built-in speaker
TV output with audio
1.5" TFT real color display
Internal 16MB flash memory and SD card slot support
Driver free for Windows 2000/ME/XP and MAC 9.x and X.x
Print out directly via picture bridge
Macro mode

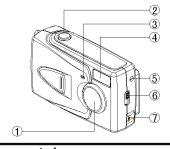
1.2 Specifications

Sensor	3.1 Mega pixel CMOS sensor
Image resolution	3.1 Mega pixels (2048x1536)
	2560x1960, 2272x1704 (Hardware Interpolation)
Lens	F/2.8 f=8.7mm
Focus range	2.0 ft. ~ Infinity
Macro mode	0.7 ft. – 1.0 ft.
Digital zoom	4x
Flash strobe	Built-in (Auto/force/off/Red-eye reduction)
LCD display	1.5" real color TFT
White balance	Auto/Sunny/cloudy/Tungsten/Fluorescent
Video mode	15fps@VGA (AVI)
Built-in memory	16MB Flash memory
Picture Capacity (The quantity of pictures varies and depends on the complexity of the scene)	5M: (2560 x 1920) -- 17 Pictures
	4M: (2272 x 1704) --22 Pictures
	3.1M: (2048 x 1536) -- 26 Pictures
	2.0M: (1600 x 1200) -- 43 Pictures
	800K: (1024 x 768) -- 107 Pictures
	300K: (640 x 480) -- 215 Pictures
External memory card	SD card, supports up to 512MB
File format	Picture: JPEG, Video: AVI, Voice: WAV
Self timer	10 seconds
PC interface	USB 1.1
TV-out	NTSC/PAL
Power source	2xAA alkaline batteries
Dimension (LxHxW)	3.6” x 2.1” x 1.2”
Weight	3.7 oz. (without battery)

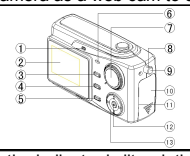
1.3 System requirement

Operating System	Windows 98SE/2000/ME/XP
	Mac 9.x or X.x
CPU	Pentium II or above
RAM	At least 64MB
Interface	USB port
CD	4x speed CD ROM or above

2. Functional parts:



1	Lens	Records the image taken. ***Note:*** *Keep the lens clean. Dirt and fingerprints affect the outcome of the picture.*
2	Shutter button	Press this button to take photographs or to start/stop recording a short video clip.
3	Self-timer indicator	Flashes when the self-timer function is used.
4	Flash	Use the built-in flash to give the subject extra lighting if it is in dark surroundings (the best flash distance is recommended within 4.9 ft.).
5	Composite A/V out	Connection for connecting the camera to a TV or video recorder in order to view the photographs, videos and voice on TV.
6	Macro mode	The macro switch can be used to select macro mode. Set the switch to one of the two positions. **Macro mode:** select this mode to take close-up photographs (distance 0.7 ft. ~ 1 ft.). **Normal mode:** select this mode to take photographs of the surroundings or people (distance of approximately 1.6 ft. - infinity).
7	USB connection	Connection for connecting the camera to the USB port of a computer. Via this connection, you can save photographs and video clips on a computer or use the camera as a web cam to chat on the Internet.



1	Status indicator	When the indicator is lit red, the camera is busy and cannot be used at that moment.
2	LCD screen	On the (TFT) LCD screen, you can do the following: view the image to be photographed (Preview), view photographs and video clips, view camera Settings, and use to set the camera menu.
3	Power on/off button	The camera is turned on by pressing it and is turned off by pressing it again.
4	Flash button **Delete button**	This button can be used to select the flash. **This button is also used to delete photos in playback mode.**
5	Display mode button **Multi photo button**	This button can be used to select which options you wish to have visible on the LCD screen. **This button is also used to show the photo matrix in playback mode.**
6	Speaker	The camera can play the recorded voice directly using the speaker
7	Multi select button	The multi select button can be used to select various camera functions. Print mode: Directly print out selected pictures PC mode: Connect the camera to a computer as a web cam Voice recording mode: Recording voice Photo mode: you can take photographs when the switch is in this position. Playback mode: you can view the photographs and video clips on the display when the switch is in this position. Video mode: you can record video clips (with audio) when the switch is in this position. Setup mode: the camera can be configured as required (resolution, quality, white balance, etc.) when the switch is in this position.
8	Microphone	To record voice.
9	Strap hook	Hook for attaching the wrist strap to the camera.
10	Battery door	2xAA alkaline batteries
11	SD card slot	SD slot is located behind the battery door.
12	OK button	This button can be used to confirm changes.
13	4 way menu button	This button can be used to scroll through the camera’s menus

3. Explanation of the multi-select button and the 4 way menu button

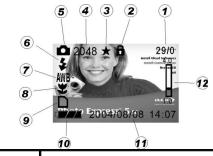
The ***multi-select*** button can be turned to the left and right. You can then access the different menus which are in the camera.
The ***4 way menu button*** can be used to scroll through the menus selected by pressing the up, down, left and right arrow buttons. Any settings made can be confirmed by pressing the ***OK button*** in the center of the 4 way menu button. By pressing the button, the camera setting will be changed.

Note: *Stop rotating the multi-select button when you feel some resistance.*

SET	Picture	Resolution	2560 x 1920	5.0M pixel resolution
			2272 x 1704	4.0M pixel resolution
			2048x1536	3.1M pixel hardware resolution
			1600x1200	2.0M pixel hardware resolution
			1024x768	800K pixel hardware resolution
			640x480	300K pixel hardware resolution
		Quality	Super	Best quality
			Fine (Default)	Fine quality
			normal	Normal quality
		White balance	auto (Default)	Automatic light balance
			sunny	Light balance selected for sunny surrounding
			cloudy	Light balance selected for cloudy surrounding
			tungsten	Light balance selected for tungsten lighting
			fluorescent	Light balance selected for fluorescent surrounding
		Exposure value	-2, -0.5, 0, 0.5, 2	Level of exposure
		Color effect	Full color (Default)	Take normal color images
			W/B	Take white and black images
			SEPIA	Take sepia images
		Date stamp	Enable	Show the date on the pictures taken
			Disable (Default)	Don't show the date on the pictures
	System	Language	English (Default)	Camera display menu set in English
			Chinese	Camera display menu set in Chinese
		Time / Date	DD.MM.YYYY / H.M	Year, Month, Day, Time setting
		Video Out	NTSC (Default)	American and Japanese video format
			PAL	European video format
		Frequency	50Hz (Default)	Main European electricity frequency
			60Hz	Main American electricity frequency
		Beep	On (Default)	Enables the key tone
			Off	Disables the key tone
		Format	Format	Confirmation to fully format the memory
			Cancel (Default)	Cancel formatting
		Auto power off	1 Min	Auto power off in 1 minute if not operating
			2 Min (Default)	Auto power off in 2 minutes if not operating
			Disable	Disable the auto power off function
		Reset	Load	Restore default setting
			Cancel (Default)	Cancel reset

Note: *The settings will not change when the camera is turned off*

4. Explanation of the status icons on the LCD screen



Item	Function	Description
1	Photo/video counter	In Photo mode, it displays the number of photographs which have already been taken. In the Video mode, it displays the time in seconds remaining for recording a video clip. In the Play mode, it displays the number of photographs which have already been taken and the number of video clips which have been recorded.
2	Image protect indicator	Indicate the current picture is protected
3	Quality	Displays the quality of the recording. ★**= Normal quality** ★★ **= Fine quality**

		★ ★★ **= Super quality**
4	Camera resolution	Displays the horizontal resolution. **2560=2560x1920; 2272=2272x1704; 2048 = 2048x1536; 1600= 1600x1200; 1024=1024x768; 640=640x480**
5	Recording mode	The camera is set to take a photograph. **= Setting for taking photographs** **= Setting for recording videos** = Appears when the self-timer function has been turned on.
6	Flash indicator	Displays the camera's flash setting. A: **Auto Flash:** the camera determines if the flash must be used or not. : **Flash + red eye reduction:** the camera determines whether the flash must be used and then uses the red-eye reduction function. : **No Flash:** the flash is turned off. : Flash every time ***Note:*** *The default setting is 'No Flash'.*
7	White balance indicator	Displays of white balance setting: AWB **= Automatic White balance.** **= White balance for fluorescent lighting.** **= White balance for sunny weather.** **= White balance for Cloudy weather** **= White balance for Tungsten lighting.**
8	Macro mode indicator	Indicates the lens is set to Macro mode.
9	Memory card indicator	Indicates the SD card is inserted.
10	Battery indicator	When the batteries are full, it displays a full battery. When the battery is empty, it displays an empty battery.
11	Date stamp	Displays the date year/month/day
12	Zoom in and out indicator	Displays the extent to which the zoom is used. 4.0 = maximum zoom 1.0= normal image

5. Quick menu

1. Set the multi-select button to Photo mode ( ).
2. Press the OK button.
3. The current resolution will be displayed in the middle of the LCD screen (Default resolution = 2048x1536).
4. If you wish to change one of the options, press one of the menu buttons up or down arrow buttons.
5. You can scroll through the options using the 4 way menu button's left and right arrow buttons.
6. If you wish to keep the settings you have made, press the OK button.

6. Using the camera

6.1 Installing the batteries

1. Open the battery door.
2. Insert 2 AA alkaline batteries into the camera according to the correct polarity marked in the battery compartment.
3. Turn on the camera.

Note: Please turn off the camera first by pressing the power on/off button before you open the battery door to change batteries.

6.2 Inserting a memory card (not included)

This camera has built-in internal memory. This memory can be extended with a SD memory card (not included).
Follow the instructions given below to insert the optional SD memory card into the camera.
1. Open the camera's battery door by sliding it downwards.
2. Insert the SD card into the slot as shown inside the camera's battery compartment. The SD card can only be inserted one way.
3. Press the SD card completely into the camera and then close the door. Open the door and press on the memory card if you wish to remove it.

Note: *There is only one way to insert the SD memory card into the slot. Do not force the card into the slot. This may damage both the camera and the SD memory card.*
Note: *The SD memory card must be formatted before taking photographs. See the following sections for more information.*

6.3 Formatting the memory

If you use a SD card, it must first be formatted before you can take photographs. Follow the instructions given below to do this.
1. Insert the memory card into your camera as described in chapter 6.1.
2. Turn the camera on by pressing the power button
3. Use the multi-select button to select the **SET** option.
4. Press the right arrow button to set **System** then press down key to select **Format**
5. The default option is 'Format'. Select this option by pressing the OK button.
6. Select Yes to format the card.

6.4 Setting the resolution

The camera can be set to 6 different resolutions.
1. Turn the camera on by pressing the ON/OFF button.
2. Use the multi-select button to select **SET** option.
3. The Picture menu will appear on the LCD screen.
4. The first option is 'Resolution'. Press the OK button.
5. Six different resolutions will be displayed. Select the desired resolution by using the up and down arrow buttons and then press the OK button to confirm the selection.

The resolution has now been set.

6.5 Taking photographs

1. Turn the camera on by pressing the ON/OFF button.
2. Set the camera to photo mode ( ).
3. Depending on the distance to the object being photographed, use Macro switch to adjust the distance. Select the flower symbol ( ) if you wish to take a close-up photograph (0.7 - 1 ft.). If you wish to take photographs of surroundings or people (1.6 ft - infinity), set the macro switch to Normal mode ( ).
4. If you are not sure if there is enough lighting, turn the automatic flash on by pressing the flash button. Press this button again if you wish to use the red-eye reduction effect. Press the button again to turn the flash off.
(If the battery power is low, the flash won't be activated).
5. Use the LCD screen to see the object you wish to photograph.
6. Press the shutter button to take a photograph. The busy indicator will be lit red. Hold the camera as still as possible while the busy indicator is lit.
7. The LCD screen will then return to the normal display. You can now direct the camera at the next subject and take more photographs.

Note: *If you take photographs with the default camera settings, it is possible that the quality of the photographs will not always be optimal. Different surroundings produce different results. Adjust the camera settings as required.*

6.6 Zoom in and out

6.6.1 The camera can zoom in on the object to be photographed up to 4 times the size in preview mode.

1. Use and repeat the same steps 1 to 5 in chapter 6.4.
2. Zoom in by pressing the up arrow button. A bar will appear on the right -hand side of the display. 4.0 is maximum zoom. 1.0 is normal view.
3. You can zoom out by pressing the down arrow button.
4. Press the shutter button once you have found the desired setting.

6.6.2 The picture can zoom in and move in playback mode

1. Zoom in by pressing the up arrow button. A position window will appear on the top-left corner of the display.
2. Press shutter button into moving mode, the picture can be moved 4 ways by pressing the 4 way menu buttons.
3. Press the shutter button to return to zoom in mode. By pressing the down arrow button, you will return to normal mode.

6.7 Taking photographs using self-timer function

You can use the self-timer function when you wish to take a photograph of yourself or when you wish to photograph an object where the camera must be as still as possible, for example on the stand.
1. Turn the camera on by pressing the ON/OFF button.
2. Set the camera to photo mode ( ) using the multi-select button.
3. Press the OK button. The quick menu will appear.
4. Press the 4 way button's right key until appears in the upper-middle section of the LCD.
5. Press the 4 way button's up key to select .
6. Press the OK button to confirm. The self-timer function is now ready for use.
7. Use the LCD screen to direct the camera at the object you wish to photograph.
8. Press the shutter button to take a photograph.
9. The self-timer indicator in the front will blink.
10. The photograph will be taken after 10 seconds and the camera will beep once.
11. The LCD screen will then return to the normal display. You can now direct the camera at the next object and take more photographs.

6.8 Recording video clips

1. Turn the camera on by pressing the ON/OFF button.
2. Set the camera to video mode ( ) using the multi-select button.
3. Press the shutter button to start recording a video clip. The video images that are being recorded will be displayed on the LCD screen. The number of seconds recorded will appear on the right-hand side of the LCD screen. Press the shutter button again to stop recording the video clip. The video clip will now be saved as an AVI file in the camera's memory.

6.9 Viewing photographs and video clips

Once you have taken some photographs or recorded video clips, you can view them on the LCD screen. Follow the instructions given below to do this.
1. Turn the camera on by pressing the ON/OFF button.
2. Set the camera to play mode ( ) by using the multi-select button.
3. Use the 4 way button's up and down buttons to scroll through the photographs in the memory and view them on the LCD screen.
4. If AVI appears on the top left-hand corner of the display, then the file is a video clip. You can play the video clip by pressing the shutter button. You can stop playing the video clip by pressing the shutter button again.

6.10 Deleting photographs and video clips

You can choose to delete a single photograph, video clip or delete all the photographs and video clips from the memory.

6.10.1 Deleting one photograph

Follow the instructions given below to delete one photograph.
1. Turn the camera on by pressing the ON/OFF button.
2. Set the camera to play mode ( ) by using the multi-select button.
3. Use the 4 way button's up and down button to scroll through the photographs in the memory and to view them on the LCD screen.
4. When you have found the photograph you wish to delete, press the OK button.
5. The display will change. Select 'Del. Curr.'
6. Press OK to confirm the deletion.
7. The file will be deleted.

6.10.2 Deleting all the photographs

Follow the instructions given below to delete all the photographs from the memory.
Note: *Make sure you have saved all the photographs you wish to keep on your computer before deleting all of the photographs from the memory.*
1. Turn the camera on by pressing the ON/OFF button.
2. Set the camera to play mode ( ) by using the multi-select button.
3. Use the 4 way button's up and down button to scroll through the photographs in the memory and to view them on the LCD screen.
4. When you have found the photograph you wish to delete, press the OK button.
5. The display will change. Select 'Del. All'
6. Press OK to confirm the deletion.
7. All the files will be deleted.

7. Installing the camera driver

The camera driver is used for Windows 98SE, Windows ME, Windows 2000 and Windows XP. The camera works without the driver on an Apple Macintosh OS 9.x or X.x. It shows up as 'Mass Storage Device'

7.1 Uninstalling old drivers and devices

The most common problem occurring during installation is the presence of a driver for a similar, old device. The best solution is to first remove all the drivers related to the old devices before installing the new driver. Make sure you only delete programs for old, unused (similar) devices.
1. Enter Windows 'Safe Mode' (press F8 when starting Windows and then select 'Safe Mode' from the menu which will be displayed).
2. Click on 'Start – Settings – Control Panel' and double-click on 'Add/Remove Programs' icon.
3. Find all the programs for similar, old devices and remove these by clicking on the 'Add/Remove' button. When in 'Safe Mode', it is possible for some programs to appear twice. In that case, remove all the programs which appear twice.
4. Restart the computer.

7.2 Installing the driver for Windows 98 / Windows ME / Windows 2000 / Windows XP

Note: *Make sure all other programs are closed during the installation process.*
Note: *During installation for Windows XP, you may receive a message saying that the driver has not been signed. This does not cause a problem for the functionality of the program. Please click "Yes" to continue.*
Note: *For example, 'D:\' is used to indicate the CD-ROM drive. This may be different for your computer.*
1. Insert the CD-ROM into your computer's CD-ROM drive. The installation program will start automatically. If it does not start automatically, please do the following:
a) Select 'Run' from Windows Start menu.
b) Type [D:\SETUP.EXE] and click on 'OK' to start the Software Installer.
2. The Software Installer will appear.
3. Select the language you wish to use for the installation.
4. Click on 'Install driver' to start the installation of the camera driver.
5. Follow the on-screen instructions.

7.3 Connecting the camera

The camera can be connected to a computer in two different ways: mass storage device and as a PC camera for video conferencing on the Internet.

7.3.1 Connecting as a mass storage device

This option makes it possible to download photographs and video clips onto your computer.
1. Turn the camera on by pressing the ON/OFF button.
2. Set the multi-select button to any position except PC, SET, and Print.
3. Connect the USB cable to the camera.
4. Connect the other end to your computer.
5. Windows will automatically detect the camera. You can use this camera as a removable disk.

7.3.2 Connecting as a PC camera

When you connect the camera as a PC camera, you can use the camera as a web cam for video conferencing on the Internet by using Windows NetMeeting or Windows Messenger.
1. Turn on the camera by pressing ON/OFF button.
2. Set the multi-select button to PC position. The will blink on the camera's LCD screen.
3. Connect the USB cable to the camera.
4. Connect the other end to your computer.
5. Windows will automatically detect the camera. Follow the on-screen instructions to complete installation.

Note: *The information above will vary when the installation has been altered by the user (for example, not everything has been installed or locations other than the default locations have been selected).*

8. Trouble shooting

Problem	Cause	Solution

Cannot turn on the camera by pressing the “power” button	Low battery power, battery is missing or incorrectly inserted the battery.	Install or replace the battery correctly.
“the multi-select button is out of detent, please turn it!” appears on the LCD screen after turning the camera on	The multi-select button is out of the detent.	Please turn the multi-select button
Photos are not saved or are missing when taking pictures	The memory card or built-in memory hasn’t been formatted properly in the camera.	Format the memory in SET mode of the camera. Please refer to 6.2
Cannot find removable disk after connecting the camera to the computer via USB	1. Connection failure. 2. The multi-select button is set to the wrong position	Make sure all cable connections are secured and restart the computer. Set the multi-select button to right position, refer to 7.3.1
Get a warning message: “Capture device was not detected” when trying to open PC cam.	1. Conflict with another camera or capture device. 2. The multi-select button is set to wrong position.	1. Remove any other camera driver completely from your system. Sometimes you have to re-install your system. 2. Set the multi-select button to the right position. refer to 7.3.2
Cannot preview image in PC Camera mode.	“Preview” is not selected in option Menu.	Click “preview” in the “option” menu to select it.
The number of pictures stays on 9999.	The memory capacity is over 9999.	It does not affect you when taking pictures.
Flash does not work.	Battery Power is very low.	Replace with new batteries
Indicator lamp of printer flashes but unable to print.	1. The multi-select button is not on print mode. 2. Out of paper or paper feed error.	1. Press resume button on the printer, set the multi-select button to print mode and turn on your camera to continue printing. 2. Reload the paper correctly and press the display button on the camera to continue printing